Author Correction: Unsupervised identification of the internal states that shape natural behavior

Adam J. Calhoun, Jonathan W. Pillow and Mala Murthy

Correction to: *Nature Neuroscience* https://doi.org/10.1038/10.1038/s41593-019-0533-x, published online 25 November 2019.

In the version of this article initially published in the Methods section "E-step" several variables appeared as m which should have been i. The sentence "The forward step identifies the probability $a_m(t) = P(Y_1 = y_1, \ldots, Y_t, Z_t = m|\theta)$ of observing $Y = y_1, y_2, \ldots, y_t$ and, assuming there are N total states, of being in state m at time t by iteratively computing as follows:" should have read, "The forward step identifies the probability $a_i(t) = P(Y_1 = y_1, \ldots, Y_t, Z_t = i|\theta)$ of observing $Y = y_1, y_2, \ldots, y_t$ and, assuming there are N total states, of being in state i at time t by iteratively computing as follows:" and errors appears in equations (8) and (9). The errors have been corrected in the PDF and HTML versions of this article.

Original:

$$a_i(t+1) = \eta_{i,y_{t+1}} \sum_{j=1}^{N} a_j(t)\alpha_{j,m} \tag{8}$$

$$b_i(t) = P(Y_{t+1} = y_{t+1}, \ldots, Y_T = y_T | Z_t = m, \theta) = \sum_{j=1}^{N} b_j(t+1)\eta_{j,y_{t+1}}\alpha_{i,j} \tag{9}$$

Corrected:

$$a_i(t+1) = \eta_{i,y_{t+1}} \sum_{j=1}^{N} a_j(t)\alpha_{i,j} \tag{8}$$

$$b_i(t) = P(Y_{t+1} = y_{t+1}, \ldots, Y_T = y_T | Z_t = i, \theta) = \sum_{j=1}^{N} b_j(t+1)\eta_{j,y_{t+1}}\alpha_{i,j} \tag{9}$$

Author Correction: Dopamine metabolism by a monoamine oxidase mitochondrial shuttle activates the electron transport chain

Steven M. Graves, Zhong Xie, Kristen A. Stout, Enrico Zampese, Lena F. Burbulla, Jean C. Shih, Jyothisri Kondapalli, Tommaso Patriarchi, Lin Tian, Lars Brichta, Paul Greengard, Dimitri Krainc, Paul T. Schumacker and D. James Surmeier

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In the version of this article initially published, author Tommaso Patriarchi's name was misspelled. The error has been corrected in the HTML and PDF versions of the article.